## ABSTRACT

A method for catalytically reducing nitrogen oxide compounds (NO<sub>x</sub>, defined as nitric oxide, NO, + nitrogen dioxide, NO<sub>2</sub>) in a gas by a material comprising a base metal consisting essentially of CuO and Mn, and oxides of Mn, on an activated metal hydrous metal oxide support, such as HMO:Si. A promoter, such as tungsten oxide or molybdenum oxide, can be added and has been shown to increase conversion efficiency. This method provides good conversion of NO<sub>x</sub> to N<sub>2</sub>, good selectivity, good durability, resistance to SO<sub>2</sub> aging and low toxicity compared with methods utilizing vanadia-based catalysts.